

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III SECRETARY

October 5, 2017

Addendum No. 1

RE: Contract # C203977 WBS # 53022.3.1

F. A. # NHPIM-0040(050) Johnston County (I-5781)

I-40 From SR-1010 (Cleveland Road) To West of SR-1211 (Morgan Road)

October 17, 2017 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Roadway plans:

Sheet No. Revisions	
2A-1	Revised to add Note #5
PMP-1 and PMP-2	Revised to reflect the change in pavement markings as noted below

Please void the above listed sheets in your plans and staple the revised sheets thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 10-05-2017".
Table Of Contents	Revised to reflect the addition of the Black Epoxy Pavement
Table of Contents	Marking Special Provision
G-3	Added two new items to the list within the project special provision
0.3	entitled "Specialty Items"
R-35 and New	Revised to add the project special provisions entitled "Removal Of
R-36	Existing Snowplowable Pavement Markers" and "Patching
K-30	Concrete Pavement Spalls"
PM-1 thru PM-4	New pages added to include the project special provision entitled
1 141-1 011 01 141-4	"Black Epoxy Pavement Marking Material"

Please void the above listed pages in your proposal and staple the revised pages thereto. Please add New Page Nos. PM-1 thru PM-4 after existing Page No. TC-10.

On the item sheets the following pay items has been deleted, added or quantities revised:

<u>Item</u>	Description	Old Quantity	New Quantity
026-4685000000-E-	Thermoplastic Pavement	1,723 LF	DELETED
1205	Marking Lines (4", 90 Mils)		
027-4686000000-E-	Thermoplastic Pavement	388 LF	DELETED
1205	Marking Lines (4", 120 Mils)		
028-4688000000-E-	Thermoplastic Pavement	347,656 LF	DELETED
1205	Marking Lines (6", 90 Mils)	,	
029-4690000000-E-	Thermoplastic Pavement	49,158 LF	DELETED
1205	Marking Lines (6", 120 Mils)	47,130 L1	DELETED
030-4695000000-E-	Thermoplastic Pavement	280 LF	DELETED
	Marking Lines (8", 90 Mils)	280 LF	DELETED
1205	- , , , , ,	11 000 7 7	
031-4700000000-E-	Thermoplastic Pavement	11,000 LF	DELETED
1205	Marking Lines (12", 90 Mils)		
032-4702000000-E-	Thermoplastic Pavement	2,900 LF	DELETED
1205	Marking Lines (12", 120 Mils)		
033-4710000000-E-	Thermoplastic Pavement	55 LF	DELETED
1205	Marking Lines (24",120 Mils)		•
034-4725000000-E-	Thermoplastic Pavement	46 EA	DELETED
1205	Marking Symbol (90 Mils)		
035-4905000000-N-	Snowplowable Pavement	2,700 EA	2,844 EA
1253	Markers	2,700 121	2,044 1/1
072-1737000000-SP	Patching Concrete Pavement	NEW ITEM	4 000 SE
072-1737000000-31	Spalls	INE WILLENI	4,000 SF
073-4780000000-E-	Cold Applied Plastic	NEW ITEM	280 LF
1205	Pavement Marking Lines	MEW HEN	200 LF
1203	Type II (8")		
074-4785000000-E-	Cold Applied Plastic	NEW ITEM	11,000 LF
1205	Pavement Marking Lines		11,000 L1
1203	Type II (12")		
075-4795000000-E-	Cold Applied Plastic	NEW ITEM	55 LF
1205	Pavement Marking Lines		<i>33</i> L1
1203	Type II (24")		
076-4805000000-N-	Cold Applied Plastic	NEW ITEM	46 EA
1205	Pavement Marking Symbol	THE WILLIAM	+0 L/1
1203	Type II		
077-4815000000-E-	Paint Pavement Marking	NEW ITEM	793,628 LF
1205	Lines, 6"	TIE VI TIENT	793,020 E1
078-4825000000-E-	Paint Pavement Marking	NEW ITEM	22,000 LF
1205	Lines, 12"		44,000 LT
		ATENEX/ EZENENE Æ	40.77.4
079-4845000000-N-	Paint Pavement Marking	NEW ITEM	40 EA
1205	Symbols		

<u>Item</u>	Description	Old Quantity	New Quantity
080-4847000000-E-	Polyurea Pavement Marking	NEW ITEM	2,111 LF
1205	Lines (4") (Highly Reflective Elements)		
081-4847100000-E-	Polyurea Pavement Marking	NEW ITEM	396,814 LF
1205	Lines (6") (Highly Reflective Elements)		
082-4847120000-E-	Polyurea Pavement Marking	NEW ITEM	2,900 LF
1205	Lines (12") (Highly Reflective Elements)		
083-4855000000-E-	Removal Of Pavement	NEW ITEM	396,814 LF
1205	Marking Lines (6")		
084-4865000000-E-	Removal Of Pavement	NEW ITEM	11,000 LF
1205	Marking Lines (12")		
085-4875000000-N-	Removal Of Pavement	NEW ITEM	40EA
1205	Marking Symbols and Characters		
086-4891000000-E-	Epoxy Pavement Marking	NEW ITEM	45,708 LF
1205	Lines,(Black) 8"		
087-7132000000-E-	Vehicle Signal Head (12",	NEW ITEM	1 EA
1705	4 Section)		
	•		

The Contractor's bid must include these new pay items and quantity change.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

Ronald E. Davenport, Jr.

F81B6038A47A442...
Ronald. E. Davenport, Jr., PE

State Contract Officer

RED/jag Attachments

cc:	Mr. Lamar Sylvester, PE	Mr. Ray Arnold, PE
	Mr., Ronnie Keeter, PE	Ms. Theresa Canales, PE
	Mr. Chris Werner, PE	Mr. Mike Gwyn
	Mr. Ken Kennedy, PE	Ms. Penny Higgins
	Mr. Jon Weathersby, PE	Mr. Mitchell Dixon
	Ms. Jaci Kincaid	Ms. Lori Strickland
	Project File (2)	

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 10-05-2017

DATE AND TIME OF BID OPENING: OCTOBER 17, 2017 AT 2:00

PM

CONTRACT ID

C203977

WBS

53022.3.1

FEDERAL-AID NO. NHPIM-0040(050)

COUNTY

JOHNSTON

T.I.P. NO.

I-5781

MILES

16.340

ROUTE NO.

I 40

LOCATION

I-40 FROM SR-1010 (CLEVELAND ROAD) TO WEST OF SR-1211

(MORGAN ROAD).

TYPE OF WORK

SIGNALS, PAVEMENT AND BRIDGE REHABILITATION.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

UNIT PROJECT SPECIAL PROVISIONS

TRAFFIC CONTROL	TC-1
PAVEMENT MARKING	
EROSION CONTROL	EC-1
TRAFFIC SIGNALS	TS-1
STRUCTURE / CULVERTS	BP-1
RAILROAD INSURANCE (Structures)	BP-60

PROPOSAL ITEM SHEET

ITEM SHEET(S) (TAN SHEETS)

MAJOR CONTRACT ITEMS:

(2-19-02) 104 SPI G28

The following listed items are the major contract items for this contract (see Article 104-5 of the 2012 Standard Specifications):

Line

Description

12 — Diamond Grinding PCC Pavement

SPECIALTY ITEMS:

(7-1-95)(Rev. 1-17-12) 108-6 SPI G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the 2012 Standard Specifications).

Line #	Description
11	Joint Construction Repair and Sealing
12	Diamond Grinding PCC Pavement
73 thru 76 and	Long-Life Pavement Markings
80-82 and 86	
35	Permanent Pavement Markers
37 thru 40	Erosion Control
41 thru 49	Signals/ITS System

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 2-18-14) 109-8 SP1 G43

Revise the 2012 Standard Specifications as follows:

Page 1-83, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ 1.7069 per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel
Unclassified Excavation	Gal/CY	0.29
Borrow Excavation	Gal/CY	0.29
Class IV Subgrade Stabilization	Gal/Ton	0.55
Aggregate Base Course	Gal/Ton	0.55
Sub-Ballast	Gal/Ton	0.55
Asphalt Concrete Base Course, Type	Gal/Ton	2.90
Asphalt Concrete Intermediate Course, Type	Gal/Ton	2.90
Asphalt Concrete Surface Course, Type	Gal/Ton	2.90
Open-Graded Asphalt Friction Course	Gal/Ton	2.90
Permeable Asphalt Drainage Course, Type	Gal/Ton	2.90
Sand Asphalt Surface Course, Type	Gal/Ton	2.90
Aggregate for Cement Treated Base Course	Gal/Ton	0.55
Portland Cement for Cement Treated Base Course	Gal/Ton	0.55
" Portland Cement Concrete Pavement	Gal/SY	0.245
Concrete Shoulders Adjacent to" Pavement	Gal/SY	0.245

Drawing No. 1101.02, Sheet 13, TEMPORARY LANE CLOSURES, replace General Note #12 with the following:

12- TRUCK MOUNTED CHANGEABLE MESSAGE SIGNS (TMCMS) USED ON SHADOW VEHICLES FOR "IN LANE" ACTIVITIES SHALL BE A MINIMUM OF 43" X 73". THE DISPLAY PANEL SHALL HAVE FULL MATRIX CAPABILITY WITH THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

13- TMCMS USED FOR ADVANCED WARNING ON VEHICLES LOCATED ON THE SHOULDER MAY BE SMALLER THAN 43" X 73". THE DISPLAY PANEL SHALL HAVE THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

REMOVAL OF EXISTING SNOWPLOWABLE PAVEMENT MARKERS

The Contractor's attention is directed to the fact that there are snowplowable pavement markers on this project. Remove and dispose of these markers as part of the diamond grinding operation.

No direct payment will be made for this work, as it will be incidental to the other items in this contract.

PATCHING CONCRETE PAVEMENT SPALLS:

(1-19-16)

710

SPI 7-13

Description

The work covered by this provision consists of the partial and full depth patching of spalls in existing Portland cement concrete pavement by sawing and removing the broken, damaged or disintegrated concrete pavement from the spalled areas of the pavement surface and patching the areas with approved patching materials at locations as directed by the Engineer in accordance with this provision.

Alternate methods and materials for patching concrete spalls may be submitted by the Contractor for approval by the Engineer.

Materials

The pavement shall not be opened to traffic until concrete is appropriately cured, per manufacturer's recommendations.

The Contractor may at his option use any approved material from the NCDOT Approved Products List or an approved equal as per the Engineer.

The material shall be mixed and installed, handled and stored, and cured in accordance with the manufacturer's instructions.

Construction Methods

When the Contractor is working under a lane closure, concrete patching operations shall be conducted in one lane at a time or as directed by the Engineer. The work shall be accomplished with other operations in progress within the same area.

The surface within the repair areas shall be cleaned so as to be free of oil, dust, dirt, deteriorated concrete and other contaminates immediately before placement of the epoxy and patching material.

Epoxy shall be applied to the vertical and flat surface of the cleaned spall areas prior to placing concrete.

Measurement and Payment

Patching Concrete Pavement Spalls will be paid for will be the actual number of square feet of existing concrete which has been patched and accepted. The actual length and width of each completed patch will be measured along the surface of the patch.

The above prices and payments will be full compensation for all work covered by this provision for furnishing all labor, materials, tools, equipment and incidentals for doing all work involved in sawing concrete pavement, removing deteriorated concrete, cleaning surfaces, epoxying, furnishing, placing, finishing, and curing concrete patch.

Payment will be made under:

Pay Item
Patching Concrete Pavement Spalls

Pay Unit Square Foot



BLACK EPOXY PAVEMENT MARKING MATERIAL:

1-26-2017

Description

This work shall consist of applying black epoxy pavement marking material on concrete.

Epoxy Pavement Marking Material

(A) Formulation

Use epoxy pavement marking material consisting of 100% solid two-part system formulated and designed to provide a simple volumetric mixing ratio of the two components.

(B) Epoxide Value: ASTM D1652

WPE of the epoxy resin shall be 250 ± 50 for component A on a pigment free basis.

(C) Amine Value ASTM D2074

The total amine value of the curing agent (component B) shall be 450 ± 50

(D) Requirements

(1) Color

Black: Must meet ASTM standard

(2) Hardness: ASTM D2240

Minimum Shore D hardness: 80

(3) Abrasion Resistance: ASTM C-501

Minimum wear index of catalyzed sample: 80

(4) Adhesion to Concrete: ASTM D4541

At 100% concrete failure:

greater than 325 psi

(5) Tensile Strength:

ASTM D638

Minimum average tensile strength:

6000 psi

(6) Compressive Strength: ASTM D695

Minimum compressive strength:

12000 psi

(7) Drying Time:

ASTM D711

Maximum drying time at 75±2°F:

10 minutes

(8) Gel Time:

ASTM D2471

Maximum gel time:

3 minutes

(E) Material Certification: Type 3 Material Certification and Type 4 Material Certification

Construction Methods

Epoxy Pavement Marking Material shall conform to the requirements of Section 1205 of the *Standard Specifications*.

(A) Application Equipment

Use epoxy application equipment, which is equipped with or capable of the following:

Precisely metering the two components in the ratio of proportion recommended by the manufacturer.

Producing the required amount of heat at the mixing head and gun tip.

Maintaining temperatures within the tolerances recommended.

Gauges for each proportioning pump so that any pressure difference can be easily monitored.

A minimum 24" long static mixer unit for proper mixing of the two components of the epoxy marking material.

Each component of the epoxy pavement marking shall be in a homogeneous state prior to mixing,

Have the capability to totally mix component A with component B immediately prior to the marking application.

Have the capability to spray pavement marking material and have the equipment mounted on a truck of sufficient size and stability with an adequate power source to produce uniform lines of the specified dimension.

A metering device to register the accumulated installed footage for each gun

(B) Weather Limitations

Apply epoxy pavement marking only when the ambient air temperature and the pavement surface temperature is a minimum of 35°F and rising.

(C) Application

Produce epoxy pavement marking lines that have a minimum dry thickness of 15 mils when placed on concrete pavements and 20 mils when placed on asphalt pavements.

Use **Type I** epoxy material (fast dry) for epoxy pavement markings except when otherwise specified in the contract documents.

Type II epoxy material may be used with lane closures as approved by the Engineer to allow for curing time.

Do not place epoxy markings on fresh asphalt pavements until 15 days have elapsed after the last asphalt layer is placed.

Using the epoxy application equipment, apply the pavement marking materials simultaneously. Hot-spray the epoxy resin, mixed in accordance with the manufacturer's recommendations, onto the pavement surface within an application temperature range recommended by the manufacturer. Inject retroreflective glass beads into the molten (liquid) Epoxy Marking.

Individual Components: Before mixing, heat the individual components to within the temperature range of 100°F to 170°F. Do not exceed the upper limit of the manufacturer's recommended heating temperature at any time under any circumstances.

Mixed Material: After mixing, ensure that the application temperatures for the combined materials at the gun tip are within the temperature range recommended by the manufacturer for the particular product used.

Produce marking, which upon cooling, has the ability to resist deformation caused by traffic throughout its entire length.

(D) Observation Period

Epoxy pavement markings will be subject to a 30 day observation period.

Maintain responsibility for the pavement markings for a 30 day observation period beginning upon the satisfactory completion of all work required in the plans. Guarantee the markings under the payment and performance bond in accordance with Article 105-17.

Have traffic operating on the facility during the entire 30 day observation period unless otherwise directed.

Provide pavement marking material, which during the 30 day observation period, shows no signs of failure due to blistering, excessive cracking, chipping, bleeding, staining, discoloration, oil content of the pavement materials, smearing or spreading under heat, deterioration due to contact with grease deposits, oil, diesel fuel, or gasoline drippings, spilling, poor adhesion to the pavement materials, vehicular damage, debonding and normal wear.

Replace, at no additional expense to the Department, any pavement markings that do not perform satisfactorily under traffic during the 30 day observation period.

Measurement and Payment

number of linear feet of pavement marking lines that have been satisfied by the satisfied b	*
Payment will be made under:	
Pay Item	Pay Unit
Epoxy Pavement Marking Lines, (Black)"	Linear Foot

ITEMIZED PROPOSAL FOR CONTRACT NO. C203977

County: Johnston

Line Item Number Sec Description Quantity **Unit Cost Amount ROADWAY ITEMS** 0001 0000100000-N 800 **MOBILIZATION** Lump Sum L.S. 0002 0000400000-N CONSTRUCTION SURVEYING 801 Lump Sum L.S. 0003 0043000000-N 226 **GRADING** Lump Sum L.S. 0004 1110000000-E STABILIZER AGGREGATE 510 100 TON 0005 1297000000-E MILLING ASPHALT PAVEMENT, ***" 607 2,600 **DEPTH** SY (1-1/2")0006 1297000000-E MILLING ASPHALT PAVEMENT, ***" 1,450 **DEPTH** SY (3")0007 1489000000-E ASPHALT CONC BASE COURSE, TYPE 610 530 B25.0B TON 0008 1519000000-E ASPHALT CONC SURFACE COURSE, 610 130 TYPE S9.5B TON 0009 1575000000-E 620 ASPHALT BINDER FOR PLANT MIX 31 TON 1858000000-E *****" PORT CEM CONC PAVEMENT, 0010 710 1,250 RAMPS (WITH DOWELS) SY (8")0011 1881000000-E GENERIC-PAVING ITEM SP 823,400 JOINT CONSTRUCTION, REPAIR, & LF **SEALING** 0012 1891000000-E GENERIC PAVING ITEM SP 525,000 DIAMOND GRINDING PCC PAVEMENT SY CONCRETE SHOULDERS ADJACENT TO 0013 1913000000-E 720 630 **" PAVEMENT SY 0014 1924000000-N FIELD LABORATORY RENTAL, PORT Lump Sum L.S. CEM CONC PAVEMENT WORK ZONE SIGNS (STATIONARY) 0015 4400000000-E 1110 24 SF 1110 WORK ZONE SIGNS (PORTABLE) 0016 4405000000-E 669 SF WORK ZONE SIGNS (BARRICADE 0017 4410000000-E 1110 24 MOUNTED) SF

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
		÷				·
0018	4415000000-N	1115	FLASHING ARROW BOARD	4		
				EA		
0019	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE	16		
			SIGN	EA		
0020	4430000000-N	1130	DRUMS	300		
				EA		
0021	4445000000-E	1145	BARRICADES (TYPE III)	40		
				LF		
0022	4480000000-N	1165		2		
				EA		
0023	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM	21		
			SEQUENTIAL FLASHING WARNING LIGHTS	EA		
 0024	4600000000-N	 SP	GENERIC TRAFFIC CONTROL ITEM	10		
	1000000001	O,	WORK ZONE DIGITAL SPEED LIMIT	EA		
			SIGNS			
 0025	4600000000-N	 SP	GENERIC TRAFFIC CONTROL ITEM	15		
			WORK ZONE PRESENCE LIGHTING	EA		
 0035	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	2,844		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			EA		
0036	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
						•
0037	6000000000-Е	1605	TEMPORARY SILT FENCE	5,000		
				LF		
0038	6071010000-Е	SP	WATTLE	4,000		
				LF		
0039	6084000000-Е	1660	SEEDING & MULCHING	.1		
	***************************************			ACR		·
0040	6132000000-N	SP	GENERIC EROSION CONTROL ITEM	2		
			CONCRETE WASHOUT STRUCTURE	EA		
 0041	7060000000-E	1705	SIGNAL CABLE	210		
11		1700		LF		
 0042	7300000000-E	1715	UNPAVED TRENCHING (********)	70		
			(1, 2")	LF		
0043	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	2		
	.52.0000014	.,,,,	The state of the s	EA		
 0044	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	380		
		.,,20		LF		

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0045	7456000000-E	1726	LEAD-IN CABLE (*************) (14-2)	290 LF		
0046	7575142060-N	SP	MODIFY RADIO INSTALLATION	1 EA		
0047	7756000000-N	1751	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	1 EA		
0048	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	6 EA		
0049	7901000000-N	1753	CABINET BASE EXTENDER	1 EA		
0072	1737000000-Е	SP	PATCHING CONCRETE PAVEMENT SPALLS	4,000 SF		
0073	4780000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (II)	280 LF		
0074	4785000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (12") (II)	11,000 LF		
0075	4795000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (24") (II)	55 LF		
 0076	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (II)	46 EA		·
0077	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	793,628 LF		
 0078	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	22,000 LF		 ~~~~
0079	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	40 EA		
0800	4847000000-E	1205	POLYUREA PAVEMENT MARKING LINES (4", *********) (HIGHLY REFLECTIVE ELEMENTS)	2,111 LF		
0081	4847100000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", *********) (HIGHLY REFLECTIVE ELEMENTS)	396,814 LF		
 0082	4847120000-E	1205	POLYUREA PAVEMENT MARKING LINES (12", **********) (HIGHLY REFLECTIVE ELEMENTS)	2,900 LF		

ITEMIZED PROPOSAL FOR CONTRACT NO. C203977

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0083	4855000000-Е	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	396,814 LF		
0084	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	11,000 LF		
0085	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	40 EA		
0086	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM EPOXY PAVEMENT MARKING LINES, (BLACK) 8"	45,708 LF		
0087	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	1 EA	·	
		s	STRUCTURE ITEMS			
0050	8161000000-E	420	GROOVING BRIDGE FLOORS	100,040.5 SF		
0051	8296000000-N	442	POLLUTION CONTROL	Lump Sum	L.S.	
0052	8559000000-E	SP	CLASS II, SURFACE PREPARATION	10 SY		
0053	8590000000-E	876	RIP RAP, CLASS ** (II)	70 TON		
0054	8664000000-E	SP	SHOTCRETE REPAIRS	54.7 CF		
0055	8678000000-E	SP	EPOXY RESIN INJECTION	69.5 LF		
0056	8860000000-N	SP	GENERIC STRUCTURE ITEM PAINTING CONTAINMENT FOR BRIDGE NO 486	Lump Sum	L.S.	
0057	886000000-N	SP	GENERIC STRUCTURE ITEM PAINTING CONTAINMENT FOR BRIDGE NO 487	Lump Sum	L.S.	
0058	886000000-N	SP	GENERIC STRUCTURE ITEM PAINTING CONTAINMENT FOR BRIDGE NO 488	Lump Sum	L.S.	

ITEMIZED PROPOSAL FOR CONTRACT NO. C203977

County: Johnston

Line Item Number Sec Description Quantity **Unit Cost Amount** GENERIC STRUCTURE ITEM 0059 8860000000-N SP Lump Sum L.S. PAINTING CONTAINMENT FOR **BRIDGE NO 489 GENERIC STRUCTURE ITEM** 0060 8860000000-N SP Lump Sum L.S. PAINTING EXISTING WEATHERING STEEL STRUCTURE FOR BRIDGE NO 486 0061 8860000000-N GENERIC STRUCTURE ITEM Lump Sum L.S. PAINTING EXISTING WEATHERING STEEL STRUCTURE FOR BRIDGE NO GENERIC STRUCTURE ITEM 0062 8860000000-N Lump Sum L.S. PAINTING EXISTING WEATHERING STEEL STRUCTURE FOR BRIDGE NO 0063 8860000000-N GENERIC STRUCTURE ITEM Lump Sum L.S. PAINTING EXISTING WEATHERING STEEL STRUCTURE FOR BRIDGE NO 489 GENERIC STRUCTURE ITEM 0064 8867000000-E SP 109 FOAM JOINT SEALS LF 0065 8867000000-E SP GENERIC STRUCTURE ITEM 2,127.5 SILICON JOINT SEALANT LF GENERIC STRUCTURE ITEM 0066 8881000000-E SP 335.4 **PPC MATERIALS** CY GENERIC STRUCTURE ITEM 0067 8892000000-E SP 5,979 **EPOXY COATING** SF GENERIC STRUCTURE ITEM 0068 8893000000-E SP 37.9 CONCRETE DECK REPAIR FOR PPC SY **OVERLAY** 0069 8893000000-E GENERIC STRUCTURE ITEM 12,070.5 PLACING AND FINISHING PPC SY **OVERLAY** GENERIC STRUCTURE ITEM 0070 8893000000-E SP 12,067.5 SCARIFYING BRIDGE DECK SY

Oct 05, 2017 12:28 pm

1228/Oct05/Q3200544.0/D438497872060/E78

ITEMIZED PROPOSAL FOR CONTRACT NO. C203977

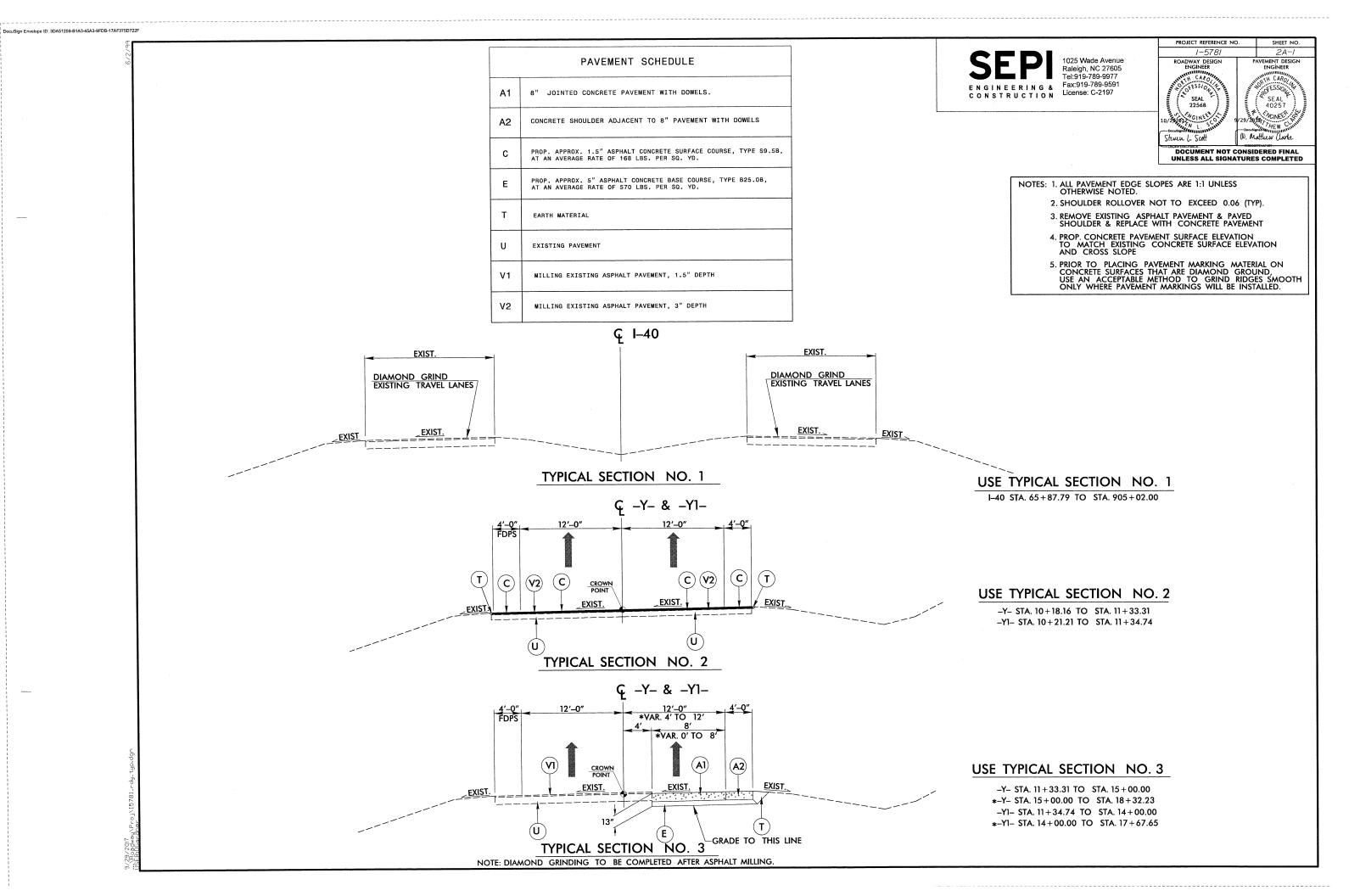
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County: Johnston

Line | Item Number | Sec | Description | Quantity | Unit Cost | Amount |

0071 | 8893000000-E | SP | GENERIC STRUCTURE ITEM | SHOTBLASTING BRIDGE DECK | SY

Total Amount Of Bid For Entire Project :



STATE OF NORTH CAROLINA

PAVEMENT MARKING PLAN JOHNSTON COUNTY

LOCATION: I-40 FROM SR 1010 (CLEVELAND ROAD) TO

WEST OF SR 1211 (MORGAN ROAD)

TYPE OF WORK: PAVEMENT REHABILITATION, BRIDGE

REHABILITATION, AND SIGNALS

DEPARTMENT OF TRANSPORTATION

I-5781

PROVED: Joseph Kopaskie ATE: 10/3/2017

UNLESS ALL SIGNATURES COMPLETED

INDEX

SHEET NO. PMP-1

DESCRIPTION

PAVEMENT MARKING PLAN COVER SHEET

PMP-2

PAVEMENT MARKING DETAIL

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
VB VD	POLYUREA(4") WITH HIGHLY REFLECTIVE ELEMENTS WHITE EDGELINE YELLOW EDGELINE 3 FT 9 FT./SP WHITE MINISKIP WHITE SOLID LANE LINE
V6 V7 VJ VK	POLYUREA(6") WITH HIGHLY REFLECTIVE ELEMENTS WHITE EDGELINE YELLOW EDGELINE 10 FT. WHITE SKIP 3 FT 9 FT./SP WHITE MINISKIP
V14 VT	POLYUREA(12")WITH HIGHLY REFLECTIVE ELEMENTS 3 FT 9 FT./SP WHITE MINISKIP WHITE SOLID LANE LINE
CN CO	COLD APPLIED PLASTIC(8") WHITE GORELINE WHITE DIAGONAL
C4	COLD APPLIED PLASTIC (8") TYPE 2 - PERMANENT HIGH PERFORMANCE 10 FT. CONTRAST WHITE/BLACK SKIP
cs	COLD APPLIED PLASTIC(12") WHITE GORELINE
C2	COLD APPLIED PLASTIC(24") WHITE STOPBAR
DB DD DP	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL RIGHT TURN ARROW COMBO.STRAIGHT/LEFT MERGE ARROW
MF	SNOWPLOWABLE RAISED PAVEMENT MARKERS CRYSTAL & RED

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME MARKING ALL ROADS

POLYUREA WITH HIGHLY

MARKER SNOWPLOWABLE

REFLECTIVE ELEMENTS

COLD APPLIED PLASTIC SYMBOLS AND

SHORT MARKING LINES TYPE II

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING POLYUREA PAVEMENT MARKING MATERIAL.
- UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS ON ASPHALT OR CONCRETE ROADWAYS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE COLD APPLIED PAY ITEM.
- TYPE III COLD APPLIED PLASTIC MAY BE USED IN LIEU OF TYPE II COLD APPLIED PLASTIC. IF TYPE III COLD APPLIED PLASTIC IS USED, IT SHALL BE PAID FOR USING THE TYPE II COLD APPLIED PLASTIC PAY ITEM.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

PLAN PREPARED BY: SEPI Engineering

JOSEPH KOPASKIE, P.E. TRANSPORTATION PROJECT MANAGER TRAFFIC ENGINEER

Fax:919-789-9591 License: C-2197

DocuSign Envelope ID: 27668C60-29E9-4CE8-AE29-50C073953CF5

